

Title (en)
VEHICLE EQUIPMENT CONTROL WITH SEMICONDUCTOR LIGHT SENSORS

Title (de)
STEUERUNG VON FAHRZEUGGERÄTEN MIT HALBLEITERLICHTSENSOREN

Title (fr)
COMMANDE D'EQUIPEMENT DE VEHICULE AVEC CAPTEURS DE LUMIERE A SEMI-CONDUCTEURS

Publication
EP 1147031 B1 20111228 (EN)

Application
EP 00904549 A 20000124

Priority

- US 0001830 W 20000124
- US 23696999 A 19990125
- US 23710799 A 19990125
- US 29096699 A 19990413
- US 30719199 A 19990507
- US 30794199 A 19990507

Abstract (en)
[origin: WO0043236A1] Equipment on automotive vehicle (20) is controlled by a system including at least one semiconductor light sensor (170, 170') having variable sensitivity to light. Each light sensor generates a light signal (164) indicative of the intensity of light incident on the light sensor. Control logic (66) varies the sensitivity of the light sensor and generates equipment control signals (166) based on received light signals. Sensitivity of light sensors (170, 170') may be varied by changing the integration time (228) for producing charge from light (176) incident on light transducers (178), by selecting between light transducers (178, 490, 500, 504) of different sensitivity within the light sensor (170), by using a light transducer (530) with a sensitivity that is a function of the amount of incident light (176), and the like. Controlled equipment includes devices such as automatically dimming rearview mirrors (24, 26), headlamps (44), and moisture removal means (38, 40, 42).

IPC 8 full level
G01J 1/02 (2006.01); **G01J 1/46** (2006.01); **B60H 1/00** (2006.01); **B60H 1/26** (2006.01); **B60H 1/34** (2006.01); **B60Q 1/00** (2006.01); **B60Q 1/02** (2006.01); **B60Q 1/08** (2006.01); **B60Q 1/14** (2006.01); **B60R 1/04** (2006.01); **B60R 1/08** (2006.01); **B60R 16/027** (2006.01); **B60S 1/08** (2006.01); **G01J 1/16** (2006.01); **H01L 31/10** (2006.01)

CPC (source: EP KR US)
B60H 1/34 (2013.01 - KR); **B60Q 1/08** (2013.01 - KR); **B60Q 1/14** (2013.01 - KR); **B60Q 1/1423** (2013.01 - EP KR US); **B60R 1/04** (2013.01 - KR); **B60R 1/08** (2013.01 - KR); **B60R 1/088** (2013.01 - EP US); **B60R 16/027** (2013.01 - KR); **B60S 1/08** (2013.01 - KR); **G01J 1/02** (2013.01 - KR); **G01J 1/16** (2013.01 - KR); **G01J 1/1626** (2013.01 - EP KR US); **G01J 1/46** (2013.01 - EP US); **H01L 31/10** (2013.01 - KR); **B60Q 2300/052** (2013.01 - EP US); **B60Q 2300/054** (2013.01 - EP US); **B60Q 2300/112** (2013.01 - EP US); **B60Q 2300/312** (2013.01 - EP US); **B60Q 2300/314** (2013.01 - EP US); **B60Q 2300/337** (2013.01 - EP US); **B60Q 2400/30** (2013.01 - EP US)

Citation (examination)

- US 4917477 A 19900417 - BECHTEL JON H [US], et al
- "SUMMING UP CURRENT", ELECTRONICS WORLD, NEXUS MEDIA COMMUNICATIONS, SWANLEY, KENT, GB, vol. 101, no. 1709, 1 April 1995 (1995-04-01), pages 298 - 301, XP000504241, ISSN: 0959-8332

Cited by
CN108237975A

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 0043236 A1 20000727; AU 2628800 A 20000807; CA 2356992 A1 20000727; CA 2356992 C 20070918; EP 1147031 A1 20011024; EP 1147031 A4 20061122; EP 1147031 B1 20111228; JP 2003524545 A 20030819; KR 100682523 B1 20070215; KR 20020038564 A 20020523; US 2002093741 A1 20020718; US 2005002103 A1 20050106; US 6379013 B1 20020430; US 6742904 B2 20040601; US 7361875 B2 20080422

DOCDB simple family (application)
US 0001830 W 20000124; AU 2628800 A 20000124; CA 2356992 A 20000124; EP 00904549 A 20000124; JP 2000594673 A 20000124; KR 20017009312 A 20010725; US 49119200 A 20000125; US 85512404 A 20040527; US 8578402 A 20020228